### USEFUL KNOWLEDGE.

According to an English journal, the difficulty of removing hard putty from a window sash can be obviated with great readiness by simply applying a piece of heated metal, such as a soldering-iron or other similar implement. When heated (but not red-hot) the from is to be passed slowly over the putty, thereby rendering the latter so not that it will part from the wood without any trouble.

Beds of Sulphur in Iceland.

The discovery of immense beds of sulphur in Iceland bids fair to make a material change in the trade of that substance, the Italian mines, according to recent accounts, having become to a considerable degree exhausted. An Englishman, Mr. Locke, has purchased six square miles in the region adjoining Lake Myvatn, in which are mountains of almost solid sulphur, the yellow color of which is visible at a great distance.

Rats.

To banish rats plant asphodel near the barn or stable where they are, or put some in their holes. Rats have such an aversion to this plant that they will quit the premises where it is. If they are in drains or in cellars, scatter sulphate of iron (copperas) in their runs. The copperas should not be dissolved. It is our best and cheapest disinfectant. The sulphuric acid burns their feet, and they leave in a short time without dying. This will be appreciated by every housekeeper that has to endure the stench of a dead rat.

Range of Torpedoes.

From recent experiments conducted by an English torpedo committee against the iron hull Oberon, with the view of ascertaining the maximum dis-tance within which the engines of an enemy's vessel might be rendered useif not the ship herself destroyed, by the explosion of a submarine tor-pedo, it appears that the hull of an iron-clad is practically safe from danger at a range or 100 feet from a 500 pound charge of gun cotton, exploded in forty-eight feet of water, but that her engines are liable to derangement at that distance.

### Cure for Diptherla.

The ravages of diptheria in Australia have been so extensive within the last few years that the government of-fered a large reward for any certain method of cure; and among other responses to this was one by Mr. Greathead, who at first kept his method a secret, but afterward communicated it freely to the public. It is simply the use of sulphuric acid, of which four drops are diluted in three-fourths of a tumbler of water to be administered to a grown person and a smaller dose to children, at intervals not specified. The result is said to be a coagulation of the diptheritic membrane, and its ready removal by coughing. It is asserted that where the case thus treated has not advanced to a nearly fatal termination, the extinct reserved in mination the patient recovered in almost every instance.

### Weights of Boys and Girls.

Upon the average, boys at birth weigh a little more and girls a little less than seven pounds. For the first twelve years the two sexes continue nearly equal in weight, but beyond that age the boys acquire a decided preponderance. Young men of twenty average one hundred and thirty-five pounds, while the young women of twenty average one hundred and ten pounds each. Men reach their heaviest weight at about forty years of age, when their average weight will be about one hundred and forty pounds, but women slowly increase in weight until fifty years of age, when their average weight will be one hundred and thirty. Taking the men and women together, their weight at full growth will then average from one hundred and eight to one hundred and fifty; and women from eighty to one hundred and thirty. The average weight of humanity all over the world, taking the ages and conditions, workingmen and women, and gentleman and ladies without occupation. black and the control of the great mogul, consists of 138 figures of pure gold and enamelled, and cost \$58,000; and finally comes a glass costly jewels, sapphires amounts. ladies without occupation, black and white, boys, girls and babies, is very nearly one hundred pounds, avoirdupois weight.

### Mystery of the Lakes.

Lake Erie is only 60 or 70 feet deep; but Lake Ontario, which is 592 feet deep, is 230 feet below the tide level of the ocean, or as low as most parts of the Gulf of St. Lawrence; and the bottoms of Lakes Huren, Michigan and Superior, although the surface is not much higher, are all, from their vast depths, on a level with the bottom of Ontario. Now, as the discharge through the River Detroit, after allowing for the probable portion carried off by evaporation, does not appear by any means equal to the quantity of water which the three upper lakes receive, it has been conjectured that a subterranean river may run from Lake Superior, by the Huron, to Lake Ontario. This conjecture is not improbable, and ac-counts for the singular fact that salmon and herring are caught in all the lakes communication with the St. Lawrence, but no others. but no others. As the falls of Niagara must have always existed, it would puz-zle the naturalist to say how these fish got into the upper lakes without some subterranean river; moreover, any peri-odical obstruction of the river would furnish a not improbable solution of the mysterious flux and reflux of the lakes.

### Artificial Birds' Nests.

A writer in L'Illustration, referring to the Bois de Vincennes, says: "They are placing this year, as they did last year, a great number of artificial nests in the clumps and thickets of this wood. in the clumps and thickets of this wood. Were you aware that there existed in Paris workmen skillful enough to fabricate nests so admirably constructed as to take in (in more than one sense) the very birds themselves? They make them for the thievish and quarrelsome sparrow, for the titmouse with the azure tail, for the warbler, for the kingfisher (there are large artificial lakes in the Bois de Vincennes), and for the chaf-

These, by the way, are the usual terms of leases in France. The writer goes on to state that three thousand of these nests have been put up. The plan, we believe, was first suggested by a professor of the Jardin des Plantes, with a view of encouraging the multiplication of birds that may help to destroy worms and insects injurious to vegetation.

recovered the could have Some that with a country

Infanticide by Oplum. One of the best informed physicians in England, Dri Mitchell, employed in the public health service, some time ago published a mass of testimony obago published a mass of testimony obtained by him from numerous medical witnesses, showing the almost universal resort to opium in order to benumb and stupefy children, even those of the tenderest age; a very common preparation of this sort being a so-called cordial made of treacle and opium. So general, it appears, is the use of this mixiare, that customers go to the apothecaries, and, without any heaitation, ask for a dose of it "to give to the baby next day, as they are going out to walk." Chemists frankly admit that trey make and sell these opium decoctions by the barrel and hogsheads full. This baleful usage prevails not only in the colliery districts, but also in the manufacturing and non-manufacturing districts; and it is stated by one physician that in the Nottingham, Derby and Leicester districts the habit of administering opium to infants usually begins when the child is three or formerly tering opium to infants usually begins when the child is three or four weeks old. And still another witness asserts that the opium cordial is given on the very day of birth, being in readiness for that event. The inevitable result of this terrible custom is, of course, that great numbers of infants perish, either greatdenly from an overdose or as more suddenly from an overdose, or, as more commonly happens, by slow, painful, insidious disease. Compared, there-fore, with this form of infanticide, the kind practiced by the Chinese may be said to be merciful.

#### Complimentary.

In a recent address ex-Senator Doo little remarked: "Whatever may be little remarked: "Whatever may be said in criticism of Mr. Johnson's public course, all parties agree that the white house was never more gracefully kept and presided over, than by his daughter, Mrs. Patterson—a perfect lady, a model of a republican mistress of the white house. Let me tell a fact which has never been published, but which I had from the lady's own lips. Just as she was about to leave, at the end of Mr. Johnson's administratiou, the steward of the house took an inventory, and found that not one article of furniture was missing or broken, not a furniture was missing or broken, not a sheet, towel or napkin was lost, and the house was in perfect order from top to bottom. She told me another fact, which I know the wives and daughters of the farmers of Wisconsin will be glad to hear. When they went into the white house she purchased two excel-lent cows. From the milk of these cows she made all the butter, used all the cream, and made all the ice-cream used in the president's family during his term. When she went home, she shipped these cows to Tennessee. Is it any wonder, ladies, that Mrs. Patterson received the first premium on butter at their fair, last fall?"

### The Wondrous "Green Vault."

A correspondent of the Chicago Journal, speaking of the art collections of Dresden, says: "For wealth of contents, the 'Green Vault' excels any and all the rest of the collections. The Green Vault 'consists of several vaulted apartments on the ground floor of the museum, each of which is devoted to some one kind of valuable object. In one are Florentine and other no a-ics; in another gold and silver plate which adorned the banquets of the Saxon kings; in another vessels formed of half precious stones, among which are two goblets, valued at \$6,000 each. bies, pearls, and, in still greater profusion, diamonds. One hardly knows which to be astonished at most, the wonderful richness of the collection or the wonderful folly of the princes who, from taxes no doubt levied upon their subjects, would collect such an amount of wealth to lie for years as dead capital."

### A Steam Cider-Mill.

The Detroit Tribune in recording the observations of the Michigan orchard committee says: At Battle Creek the committee had the pleasure of examincommittee had the pleasure of examining a new cider-mill and press. The grinding of the apples, pressing, and pumping are all done by steam power. The apples are ground very rapidly, and the "cheeses" are put up in one-quarter of the time required in the old mode, stout cambric being used instead of straw in making up the "cheeses," so that the juice comes out pretty free from pulp. Two men will lay up a good-sized "cheese," in fifteen minutes. The press is then applied, and is self-working, and by the time another "cheese" is ready to be pressed the first "cheese" is ready to be removed. The cider flows into a cistern beneath the floor, from which it is forced into a large tank above; but before it goes inthe floor, from which it is forced into a large tank above; but before it goes into the tank it passes through a charcoal filter, which renders it pure and clear. By extending iron pipes from this tank to a side track which has been laid near the mill, barrels are filled aboard cars. A barrel of cider is given for ten bushels of apples; the price for making we did not learn.

### Hedge Growing.

An Illinois farmers' club, located where a good deal of hedge grows and a great deal of experimental farming very birds themselves? They make them for the thievish and quarrelsome sparrow, for the titmouse with the azure tail, for the warbler, for the kingfisher (there are large artificial lakes in the Bois de Vincennes), and for the chaffinch. The cuckoo, the blackbird, and the magpie himself are not forgotten. Such beautiful nests! Large and small apartments for feathered families to be let, with immediate possession, without taking a lease, or with a lease of three, six, or nine years, at pleasure."

as unsuccessful. Observation has taught that the method indicated above is the cheapest and surest way to secure an efficient hedge of osage orange in the shortest time. shortest time.

WHISKY AND THE WEED.—Intelligent physiologists and pathologists admit that all so-called medicines containing physiologists and pathologists admit that all so-called medicines containing alcohol—whether they emanate from the regular pharmscopea and are called tinctures, or from the empirical rum mills, and are labelled "tonics"—are essentially dangerous and destructive. The only way in which drunkenness can be arrested is by restoring the integrity of the nerves (especially the nerves of tastes and the great sympathetic nerve), and purifying the animal fluids; and these objects are more certainly and swiftly accomplished by the use of Dr. Walker's Vinegar Bitters than by any other means. Hence, probably, the opinions now so generally expressed, that this pure preparation is a sovereign remedy for the evils referred to. Should it be clearly ascertained that Vinegar Bitters is not only a specific for indigestion, liver disease, nervousness, scrofulous ulcers and eruptions, and a host of other disorders, but also for inebriety, thousands will rise up and call the discoverer blessed. coverer blessed.

France has at last taken the initiative in an economy that is likely to lead to important results to agriculture. The municipal council of Paris has adopted a plan for cleansing the Seine, by which the sewage deposited in the river will be diverted to the plains of Genevilliers. Should the plan prove as profitable as is expected, it will not be long before the sewers of all large cities will be made to yield a handsome revenue.

TEN TROUSAND PROPIE.—There are more than ten thousand people who expect to be the happy possessors of the first grand prize in the Kentucky Gift Concert, of \$250,-000. All of them but one will be disappointed. One will get it, for Governor Bramlette, the manager at Louisville, has announced that the Concert will positively take place on November 30. 1874.

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Tonte and Recuperant Plantation Bitters.—The constantly increasing patronage whi h it receives has, it is true, excited the petty envy of certain splenetic advertisers of pinchbeck panaccas, who hope to make a market for their own stagnant, watery wares, by decrying all spirituous medicinal preparations, But the public can stomach neither their arguments nor their pota-tions, and consequently reject these very weak imi-tations of the enemy as entirely too thin!

The Prettiest Woman in Nety York, for her distingue appearance and beautiful complexion, was once a sallow, rough-akinned girl, chagrined at her red, freekled face. She pitched into Hagan's Magnolia Balm, and is now as pretty in comelexion as she is charming in manners. This article overcomes freekles, tan, sallowness, moth-patches, ring-marks, etc., and makes one look ten years younger than they are. Magnolia Balm for a transparent complexion, and Lyon's Kathairon te make the hair plentiful, luxuriant, noft and delicate, have no rivals. The Kathairon prevents the hair from turning gray, eradicates dandruff, and is the best and cheapest dressing in the world.

Damned by Faint Praise.—Jas. Beck-man, clergyman of New York, was recently badly kicked by a horse, and was speedily cured by using the celebrated Mexican Mustang Liniment. the proprietor asked him for a certificate, he replied that he " considered it a remarkable article, but it that he "considered it a remarkable article, but it wouldn't answer for him to endorse a remeity in print." Here's consistency. But we didn't kick him, as the horse did. The world knows that for rheumatism, bruises, swellings, spavin, scratches, inflammation, lamenees, or any ficeh, bone or muscle aliment upon man or animal, there is nothing like the Mustang Liniment. It costs but 50 cts. and \$1.00 per bottle, and should be in every family. It is wrapped in a fine steel-plate label, and signed "G W. Westbrook, Chemist."

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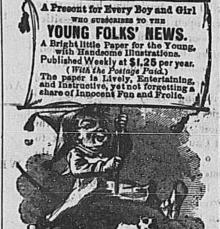
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Scrofula, or King's Evil, White Swellings, Ulcers, Erysipelas, Swelled Neck, Goitre, Scrofulous Inflammations, Indelent Inflammations, Mercurial Affections, Old Sores, Eruptions of the Skin, Sore Eyes, etc., In these, as in all other constitutional Diseases, Walker's Vinegar Bitters have shown their great curative powers in the most obstinate and intractable cases.

For Inflammatory and Chronic

For Inflammatory and Chronic Rheumatism, Gont, Bilious, Remittent and Intermittent Fevers, Diseases of the Blood, Liver, Kidneys and Bladder, these Bitters have no equal. Such Diseases are caused by Vitiated Blood.

Mechanical Diseases.—Persons engreed in Paints and Intermittent and Intermittent Blood.

Mechanical Diseases.—Persons engaged in Paints and Minerals, such as Plumbers, Type-setters, Gold-beaters, and Miners, as they advance in life, are subject to paralysis of the Bowels. To guard against this, take a dose of WALKER'S VINEGAR BITTERS occasionally.

For Skin Diseases, Eruptions, Tetter, Salt-Rheum, Blotches, Spots, Pimples, Pustules, Boils, Carbuncles, Ring-worms, Scald-head, Sore Eyes, Erysipelas, Itch, Scurfs, Discolorations of the Skin, Humors and Diseases of the Skin of whatever name

and Diseases of the Skin of whatever name or nature, are literally dug up and carried out of the system in a short time by the use of these Bitters.

Pin, Tape, and other Worms, lurking in the system of so many thousands, are effectually destroyed and removed. No system of medicine, no vermituges, no an-thelminities will free the system from worms

like these Bitters.
For Female Complaints, in young or old, married or single, at the dawn of wo-manhood, or the turn of life, these Tonio Bitters display so decided an influence that improvement is soon perceptible.

Cleanse the Vitiated Blood when-ever you find its impurities bursting through the skin in Pimples, Eruptions, or Sores; cleanse it when you find it obstructed and sluggish in the veins; cleanse it when it is foul; your feelings will tell you when. Keep the blood pure, and the health of the system will follow.

will follow.

R. H. McDONALD & CO.,
Druggists and Gon. Agts., San Francisco, California,
and cor. of Washington and Charlton Sts., N. Y.
Sold by all Druggists and Dealers.

